

IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

Claims 1-3. (cancelled)

1 4. (previously presented) The method of claim 21, wherein the weakest soft handoff link is
2 determined based upon the strength of corresponding pilot signals, as measured and reported by each
3 mobile unit in communication with the given cell sector or cell site having soft handoff links between M
4 or more cell sectors or cell sites.

1 5. (previously presented) The method of claim 4, wherein a plurality of reports of pilot signal
2 strengths are used in conjunction with averaging operations to determine the weakest soft handoff link.

Claims 6-7. (cancelled)

1 8 (previously presented) A method for managing Walsh Codes in a Code Division Multiple Access
2 (CDMA) cellular wireless communication system, the method comprises:
3 assigning a plurality of Walsh Codes to each of a plurality of serviced mobile terminals, wherein
4 each of a plurality of Walsh Codes servicing a mobile terminal corresponds to respective soft handoff link
5 transmissions and each of the plurality of Walsh codes is used by each cell or sector participating in hand-
6 off for the serviced mobile terminals for covering its soft handoff link transmissions;
7 determining that an insufficient number of unused Walsh Codes are available; and
8 limiting the number of soft handoff links that can be employed for each of the plurality of mobile
9 terminals to thereby limit the number of Walsh Codes being employed by:
10 terminating a weakest soft handoff link for at least some of the plurality of mobile
11 terminals; and
12 reducing the number of cell sectors or cell sites to limit the number of soft handoff links
13 that can be employed for hand-off, and repeating the terminating of the weakest soft handoff link
14 for at least some of the plurality of serviced mobile terminals.

9. (cancelled)

1 10. (previously presented) The method of claim 8, wherein the respective weakest soft handoff link is
2 determined based upon the strength of corresponding pilot signals, as measured and reported by the
3 mobile terminal.

1 11. (previously presented) The method of claim 10, wherein a plurality of reports of pilot signal
2 strengths are used in conjunction with averaging operations to determine the weakest soft handoff link.

1 12. (previously presented) The method of claim 8, wherein terminating at least one soft handoff link
2 participating for at least some of the plurality of mobile terminals further comprises:
3 terminating a weakest soft handoff link for each mobile terminal being serviced by five forward
4 links; and
5 terminating two weakest soft handoff links for each mobile unit being serviced by six forward
6 links.

Claims 13-15. (Cancelled).

1 16. (previously presented) The base station controller of claim 22, wherein the base station controller
2 determines the weakest soft handoff link based upon the strength of corresponding pilot signals, as
3 measured and reported by each mobile unit in communication with the given cell sector or cell site having
4 soft handoff links between M or more cell sectors or cell sites.

1 17. (previously presented) The base station controller of claim 16, wherein a plurality of reports of
2 pilot signal strengths are used in conjunction with averaging operations to determine the weakest soft
3 handoff link.

Claims 18-19. (Cancelled).

1 20. (previously presented) The base station controller of claim 22, wherein the base station controller
2 operates consistent with IS-95A, IS-95B, 1xRTT, or 1xEV-DO operating standards.

1 21. (Currently Amended) A method for managing Walsh Codes in a wireless communications
2 network comprising the steps of:
3 determining when a given communications cell sector or cell site has fewer than N unused Walsh
4 Codes, where N is a pre-set integer, ~~thereby blocking new call setups or new hand-offs by the given cell~~
5 ~~sector or cell site~~;
6 when the given communications cell sector or cell site has fewer than N unused Walsh Codes, for
7 each mobile unit in communication with the given cell sector or cell site having soft handoff links
8 between M or more cell sectors or cell sites, where M is an integer greater than one, determining the
9 weakest soft handoff link with the given cell sector or cell site and causing that link to be dropped thereby
10 increasing the unused Walsh Codes at the given cell sector or cell site; and
11 in the event that the preceding step fails to increase the number of unused Walsh Codes and the
12 number of cell sectors or cell sites M, where M is greater than a predetermined lesser number of soft
13 handoff links S, where S is an integer, reducing the number of cell sectors or cell sites M by one and
14 repeat the steps of determining the weakest soft handoff link and causing that link to be dropped.

1 22. (Currently Amended) A base station controller that supports Code Division Multiple Access
2 (CDMA) operations, the base station controller comprises:
3 a Mobile Switching Center (MSC) interface that interfaces the base station controller to a MSC;
4 at least one base station interface that interfaces the base station controller to a plurality of base
5 stations; and
6 at least one digital processor coupled to the base station interface and to the MSC interface; and
7 a plurality of software instructions that are executed by the processor, the plurality of software
8 instructions including:
9 software instructions that, upon execution by the processor, cause the base station
10 controller to determine when a given communications cell sector or cell site has fewer than N
11 unused Walsh Codes, where N is a pre-set integer, ~~thereby blocking new call setups or new hand-~~
12 ~~offs by the given communications cell sector or cell site;~~
13 software instructions that, upon execution by the processor, cause the base station
14 controller to, when the given communications cell sector or cell site has fewer than N unused
15 Walsh Codes, for each mobile unit in communication with the given cell sector or cell site having
16 soft handoff links between M or more cell sectors or cell sites, where M is an integer greater than
17 one, determine the weakest soft handoff link with the given communications cell sector or cell
18 site and causing that link to be dropped thereby increasing the unused Walsh Codes at the given
19 cell sector or cell site; and
20 software instructions that, upon execution by the processor, cause the base station
21 controller to, in the event that the preceding step fails to increase the number of unused Walsh
22 Codes and the number of cell sectors or cell sites M, where M is greater than a predetermined
23 lesser number of soft handoff links S, where S is an integer, reduce the number of cell sectors or
24 cell sites M by one and repeat the steps of determining the weakest soft handoff link and causing
25 that link to be dropped.